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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

07/27/2009

Thelen Reid & Priest LLP Robert E. Krebs P.O. Box 640640 San Jose, CA 95164-0640

EXAMINER				
JUNTIMA, NITTAYA				
ART UNIT	PAPER NUMBER			

2416

DATE MAILED: 07/27/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/729,179	12/06/2003	Yehuda Azenkot	034704-000049	8590

TITLE OF INVENTION: ESTABLISHMENT OF MULTIPLE UPSTREAM DOCSIS LOGICAL CHANNELS BASED UPON PERFORMANCE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/27/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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Thelen Reid & Priest LLP Robert E. Krebs			I h Sta add	ereby certify that th tes Postal Service v Iressed to the Mai	iis Fee(with su: 1 Stop	(s) Transmittal is being fficient postage for firs ISSUE FEE address	g deposited with the United st class mail in an envelope above, or being facsimile	
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APPLICATION NO.	FILING DATE	<u> </u>	FIRST NAMED INVENTOR)	ATTC	DRNEY DOCKET NO.	CONFIRMATION NO.	
10/729,179	12/06/2003		Yehuda Azenkot	1		034704-000049	8590	
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nonprovisional	NO	\$1510	\$300	\$0 ¬		\$1810	10/27/2009	
EXAM	IINER	ART UNIT	CLASS-SUBCLASS					
	NITTAYA	2416	370-252000					
1. Change of correspond CFR 1.363).		`	(1) the names of up to			neys 1		
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"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			registered attorney or agent) and the names of up to					
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED O	N THE PATENT (print or ty	pe)				
PLEASE NOTE: Un recordation as set fort	less an assignee is ident th in 37 CFR 3.11. Com	tified below, no assign pletion of this form is I	nee data will appear on the p NOT a substitute for filing an	oatent. If an assign assignment.	nee is i	dentified below, the d	ocument has been filed for	
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Please check the appropr	riate assignee category or	r categories (will not be	e printed on the patent) : \Box	Individual 🗖 C	orporat	ion or other private gro	oup entity 🚨 Government	
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Issue Fee	Jo small antity discount	narmittad)	☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.					
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5. Change in Entity Sta	itus (from status indicate	d above)	overpayment, to Dep	osit Account Numb	er	(enclose a	n extra copy of this form).	
a. Applicant claim	ns SMALL ENTITY state	us. See 37 CFR 1.27.	b. Applicant is no lo					
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be acce ites Patent and Tradem	pted from anyone other than ark Office.	the applicant; a reg	istered	attorney or agent; or th	ne assignee or other party in	
Authorized Signature				Date				
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an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu. Jirginia 22313-1450. DC	U.S.C. 122 and 37 CI USPTO. Time will v rden, should be sent to D NOT SEND FEES O	and in Figure 40 obtain of FR 1.14. This collection is see ary depending upon the indio the Chief Information Officor COMPLETED FORMS T	stimated to take 12 vidual case. Any co eer, U.S. Patent and O THIS ADDRES	minute ommen Trader S. SEN	s to complete, includir ts on the amount of ti mark Office, U.S. Dep D TO: Commissioner	ng gathering, preparing, and me you require to complete artment of Commerce, P.O for Patents, P.O. Box 1450.	

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APPLICATION NO.	FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/729,179	12/06/2003	Yehuda Azenkot	034704-000049 8590	
75	90 07/27/2009		EXAM	INER
Thelen Reid & Pr	riest LLP		JUNTIMA,	NITTAYA
Robert E. Krebs			ART UNIT	PAPER NUMBER
P.O. Box 640640 San Jose, CA 9516	4-0640		2416 DATE MAILED: 07/27/200	9

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 895 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 895 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/729,179	AZENKOT ET AL.
Notice of Allowability	Examiner	Art Unit
	NITTAYA JUNTIMA	2416
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	plication. If not included n will be mailed in due course. THIS
1. This communication is responsive to <u>Amendment filed on the second se</u>	<u>5/4/2009</u> .	
2. The allowed claim(s) is/are 1, 25-27, and 32-35; renumber	ed as 1-8, respectively.	
3. ☐ Acknowledgment is made of a claim for foreign priority ura) ☐ All b) ☐ Some* c) ☐ None of the:	nder 35 U.S.C. § 119(a)-(d) or (f).	
 Certified copies of the priority documents have 	e been received.	
2. Certified copies of the priority documents have	been received in Application No	·
3. Copies of the certified copies of the priority do	cuments have been received in this	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers		-948) attached
1) hereto or 2) to Paper No./Mail Date	•	,
(b) ☐ including changes required by the attached Examiner's		Office action of
Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal F	Patent Application
Notice of Preferences Oried (1 10-032) Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	
2. In Notice of Dialiperson's Latent Diawing Neview (FTO-346)	Paper No./Mail Da	te .
3. Information Disclosure Statements (PTO/SB/08),	7. 🛛 Examiner's Amend	ment/Comment
Paper No./Mail Date 4.	8. ⊠ Examiner's Statem	ent of Reasons for Allowance
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/Nittaya Juntima/		
Primary Examiner, Art Unit 2416		

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Shami Khaled on 7/21/2009.

The application has been amended as follows:

In the claim:

In claim 1, line 21, "modems" and "modem" have been changed to -- CMs-- and -- CM--, respectively;

line 23 and 24, "modems" has been changed to --CMs--.

In claim 25, line 1, "the bit error" has been changed to --bit error--.

In claim 26, line 1, "the byte error" has been changed to --byte error--.

In claim 27, line 1, "the packet" has been changed to --packet--.

In claim 32, line 20, "modem" has been changed to --CM--;

line 22, "modems" and "modem" have been changed to

--CMs-- and --CM--, respectively;

lines 23 and 24, all recitations of "modems" have been

changed to --CMs--.

Application/Control Number: 10/729,179

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In claim 33, line 1, "the bit error" has been changed to --bit error--.

In claim 34, line 1, "the byte" has been changed to --byte--.

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In claim 35, line 1, "the packet" has been changed to --packet--.

2. The following is an examiner's statement of reasons for allowance:

Claims 1, 25-27, and 32-35 are allowed. The prior art alone or in combination fail to teach or make obvious on the following when considered in combination with other limitations in the claim: the combination of dividing modems into logical groups by CM type as learned from said registration process with DOCSIS 1.0 CMs in one logical group and DOCSIS 1.1 CMs in another logical group and DOCSIS 2.0 CMs in a third logical group operating in SCDMA mode only or ATDMA mode only and monitoring the error rate of transmissions from each CM, and if the error rate of any CM becomes higher than an underperformance limit or lower than an overperformance limit, sending a message to said CM whose error rate has become too high or too low causing each said CM which is overperforming or underperforming to switch to an upstream channel with a burst profile which is compatible with the CM type and suitable for more efficient communications of digital data between said CMTS and said CM as recited in independent claims 1 and 32.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/729,179 Page 4

Art Unit: 2416

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to NITTAYA JUNTIMA whose telephone number is (571)272-

3120. The examiner can normally be reached on Monday through Friday, 8:00 A.M - 5:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Seema Rao can be reached on 571.272.3174. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nittaya Juntima/ Primary Examiner, Art Unit 2416

7/22/2009